

**Notice of Allowability**

Application No.

10/813,617

Applicant(s)

LEHMANN ET AL.

Examiner

Art Unit

Kuen S. Lu

2167

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Applicant's Amendment filed 12/19/2006.
2. ☒ The allowed claim(s) is/are 1-2, 4-5, 7-41, 43-49, 51-55 and 58-59 (renumbered to 1-53).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |   |
|--|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 5. <input type="checkbox"/> Notice of Informal Patent Application                     |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____    | 7. <input type="checkbox"/> Examiner's Amendment/Comment                              |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance  |
|  | 9. <input type="checkbox"/> Other _____   |

### **DETAILED ACTION**

1. This action is responsive to Applicant's Amendment filed December 19, 2006.

Applicant's Amendment amending claims 1, 4, 5, 7, 19, 40, 43, 48, 51, 53-54 and 58 and canceling 3, 6, 42, 50, 56-57 and 60-63 are acknowledged.

2. After a thorough search and examination of the present application, and in light of prior art made of record and Applicant's Amendment/Remarks filed December 19, 2006; claims 1-2, 4-5, 7-41, 43-49, 51-55 and 58-59 (renumbered to 1 to 53) are allowed.

### ***Reasons For Allowance***

3. The following is an examiner's statement of reasons for allowance:

In the Examiner's Office Action for non-Final Rejection of October 3, 2006, 35 U.S.C. 35 U.S.C. § 102, rejections to claims 1-5, 13-25, 33-41, 44, 47-49, 52-55, 56 and 59-63 was primarily based on a reference of Chen et al.: "SMALL FORM FACTOR WEB BROWSING", U.S. Patent Application 2004/0103371, published 12/09/2002, hereafter "Chen".

In the Remarks filed on December 19, 2006, concerning dependent claims 6-12, 26-32, 42-43, 45-46, 50-51 and 57-58 of independent claims 1, 40, 48 and 53, Applicant agreed to rewrite subject matter of the dependent claims to include all limitations of the base claims and any intervening claims in independent form for Examiner to submit the application for allowance review and approval.

Art Unit: 2167

Concerning **claims 1, 40 and 48**, the allowable subject matter is the following combined elements:

combining the atomic pieces to construct multiple sub-pages;

estimating a weight of each of the multiple sub-pages;

comparing the weight of each of the multiple sub-pages to a maximum allowable weight;

and

**transferring individually the multiple sub-pages to the client device;**

wherein combining the atomic pieces to construct multiple sub-pages comprises:

creating a sub-page of the multiple sub-pages,

the sub-page having a weight that is initially zero,

identifying a single atomic piece,

determining whether the single atomic piece may be added to the sub-page,

determining where in the sub-page the single atomic piece may be added,

adding the single atomic piece to the sub-page, and

updating the weight of the sub-page based on the addition of the single atomic piece to the sub-page; and

a similar scope of following combined elements constitutes an allowable subject matter for **claim 53:**

combining the atomic pieces to construct multiple sub-pages;

translating each of the multiple sub-pages into a language used to display the multiple sub-pages;

calculating a weight of each of the translated sub-pages;

Art Unit: 2167

comparing the weight of each of the translated sub-pages to a maximum allowable weight; and

**transferring individually the translated sub-pages to the client device;**

**wherein combining the atomic pieces to construct multiple sub-pages comprises:**

creating a sub-page of the multiple sub-pages, the sub-page having a weight that is initially zero,

identifying a single atomic piece,

determining whether the single atomic piece may be added to the sub-page,

determining where in the sub-page the single atomic piece may be added,

adding the single atomic piece to the sub-page, and

updating the weight of the sub-page based on the addition of the single atomic piece to the sub-page.

Searches on prior art, as further described below, concludes the above Chen reference the closest art. The Chen reference neither teaches an evaluation of atomic piece for adding the piece to a position in a sub-page and updating the sub-page; nor teaches generating varying sizes of random pieces, calculating weight before and after translation and performing a linear regression of the weights.

After a thorough search for the prior art conducted on EAST database and domains (NPL-ACM, Google, NPL-IEEE) and a detailed examination performed on the search results, the Examiner is persuaded that the prior art searched and made of record does not teach the above described and newly amended subject matter as described in each

of the for claims 1, 40, 48 and 53, respectively.

The dependent claim(s) in the groups (2, 4-5 and 7-39), (41 and 43-47), (49 and 51-52) and (54-55 and 58-59) depend upon claims 1, 40, 48 and 53, respectively, also distinct from the prior art for the same reason.

#### ***Conclusion***

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

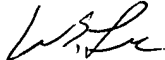
#### ***Contact Information***

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kuen S. Lu whose telephone number is (571) 272-4114. The examiner can normally be reached on Monday-Friday (8:00 am-5:00 pm). If attempts to reach the examiner by telephone pre unsuccessful, the examiner's Supervisor, John Cottingham can be reached on (571) 272-7079. The fax phone number for the organization where this application or proceeding is assigned is 703-305-3900.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for Page 13 published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.


Art Unit: 2167

For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 703-305-3900 (toll free).

Kuen S. Lu, 

Patent Examiner, Art Unit 2167

March 9, 2007

  
JOHN COTTINGHAM  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100